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FINAL REPORT

AFOSR-83-0248

SUPPORT OF PURCHASE OF A GAS CHROMATOGRAPHMASS SPECTROMETER

DR. ROBERT WEST

DEPARTMENT OF CHEMISTRY

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1 JULY 1983 - 30 JUNE 1984

FINAL REPORT FOR AFOSR
Grant No. AFOSR-83-0248

This grant was used to purchase a Kratos Model MS-25 High Sensitivity GC-MS (Gas-Chromatograph-Mass Spectrometer) System. The computer system which is required to control the spectrometer and analyze the data was provided by the University of Wisconsin. The system was installed about seven (7) months ago and has been in heavy and constant use since its installation. The system is used primarily by graduate students for high resolution GC-Mass Spectroscopy studies. A majority of the students using the spectrometer are doing their graduate research under the direction of Professor Robert C. West. *RCW*

Data collected with this instrument has played a vital role in research work which has resulted already in about a dozen publications. Because of the much higher resolution and higher sensitivity (compared with a GC-Quadrupole Mass Spectrometer) students have been able to solve molecular structure problems which would not have been possible with Quadrupole Mass Spectroscopy.

We have found the spectrometer to be easy to use by graduate students, and the software analysis programs are very user friendly. The instrument has proven to be very rugged and reliable. The little maintenance which has been required has been provided by the instrument engineering staff of the Chemistry Department.

Report Filed 12 October 1984
by Professor Thomas C. Farrar
Department of Chemistry
University of Wisconsin
Madison, WI. 53706

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